

In re Appln. of Mami et al.
Application No. 10/563,065
Response to Office Action of January 23, 2008

Amendments to the Specification

Please replace the title of the application with the following amended title:

METHOD AND SYSTEM FOR ANALYSIS OF VOCAL SIGNALS FOR A
COMPRESSED REPRESENTATION OF SPEAKERS USING A PROBABILITY
DENSITY REPRESENTING RESEMBLANCES BETWEEN A VOCAL
REPRESENTATION OF THE SPEAKER IN A PREDETERMINED MODEL AND A
PREDETERMINED SET OF VOCAL REPRESENTATIONS REFERENCE SPEAKERS

Please insert the following section heading after the title:

BACKGROUND

Please insert the following section heading after paragraph [0006]:

SUMMARY

Please insert the following section header, section description and further section header after paragraph [0019]:

BRIEF DESCRIPTION OF THE DRAWINGS

[0019.5] The invention is explained with regard to various embodiments presented in the drawings and in the following descriptive text.

Figure 1 is a block diagram illustrating an embodiment of the components in the system; and

Figure 2 is a flowchart illustrating an embodiment of the inventive method.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Please insert the following section heading after paragraph [0061]:

What is Claimed Is:

Please replace paragraph [0020] with the following amended paragraph:

[0020] Figures 1 and 2 represent The FIGURE represents an application of the system and method according to an aspect of the invention in respect of the indexing of audio databases. Of course, the invention applies also to the acoustic identification of a speaker or the verification of the identity of a speaker, that is to say, in a general manner, to the recognition of information relating to the speaker in the acoustic signal. The system comprises a means for receiving vocal data of a speaker (S120), for example a microphone 1, linked by a wire or wireless connection 2 to means of recording 3 (S120) of a request enunciated by a speaker λ and comprising a set of vocal signals. The recording means 3 are linked by a connection 4 to storage means 5 and, by a connection 6, to means of acoustic processing 7 of the request. These acoustic means of processing transform (S130) the vocal signals of the speaker 2 into a representation in an acoustic space of dimension D by a GMM model for representing the speaker λ .

Please replace paragraph [0027] with the following amended paragraph:

[0027] The means of acoustic processing 7 of the request are linked by a connection 8 to means of analysis 9. These means of analysis 9 are able to represent (S140) a speaker by a probability density vector representing the resemblances between the vocal representation of said speaker in the GMM model chosen and vocal representations of E reference speakers in the GMM model chosen. The means of analysis 9 are furthermore able to perform tests (S150) for verifying and/or identifying a speaker.